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19305A GSRS, MISSILE NUMBER 1033, ROUND NUMBER V-36, 31 MAY 197--ETC(U)
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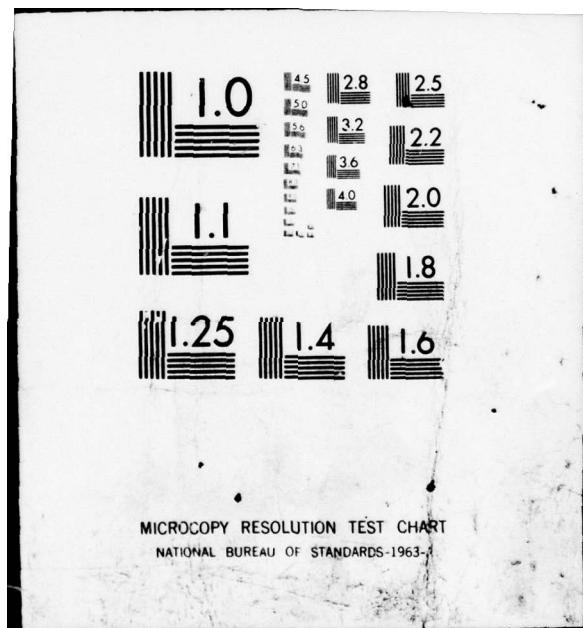
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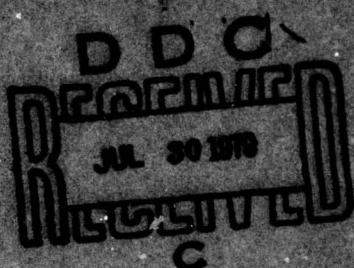
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METEOROLOGICAL DATA REPORT

19305A 65R5
Missile No. 1039
Round No. V-36
31 May 1979

by

White Sands Meteorological Team



ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 1. Ballistics 2. Meteorology 3. Wind	1	
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Metorological data gathered for the launching of 19305A GSRS, Missile No. 1033, Round No. V-36, are presented in tabular form.	420 663 slt	

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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NTIS GRA&I	
DDC TAB	
Unannounced	
Justification _____	
By _____	
Distribution/ _____	
Availability Codes	
Dist	Avail and/or special
A	

INTRODUCTION

19305A GSRS, Missile Number 1032, Round Number V-36, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1310 MDT, 31 May 1979. The scheduled launch time was 1310 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9ibal observation at:

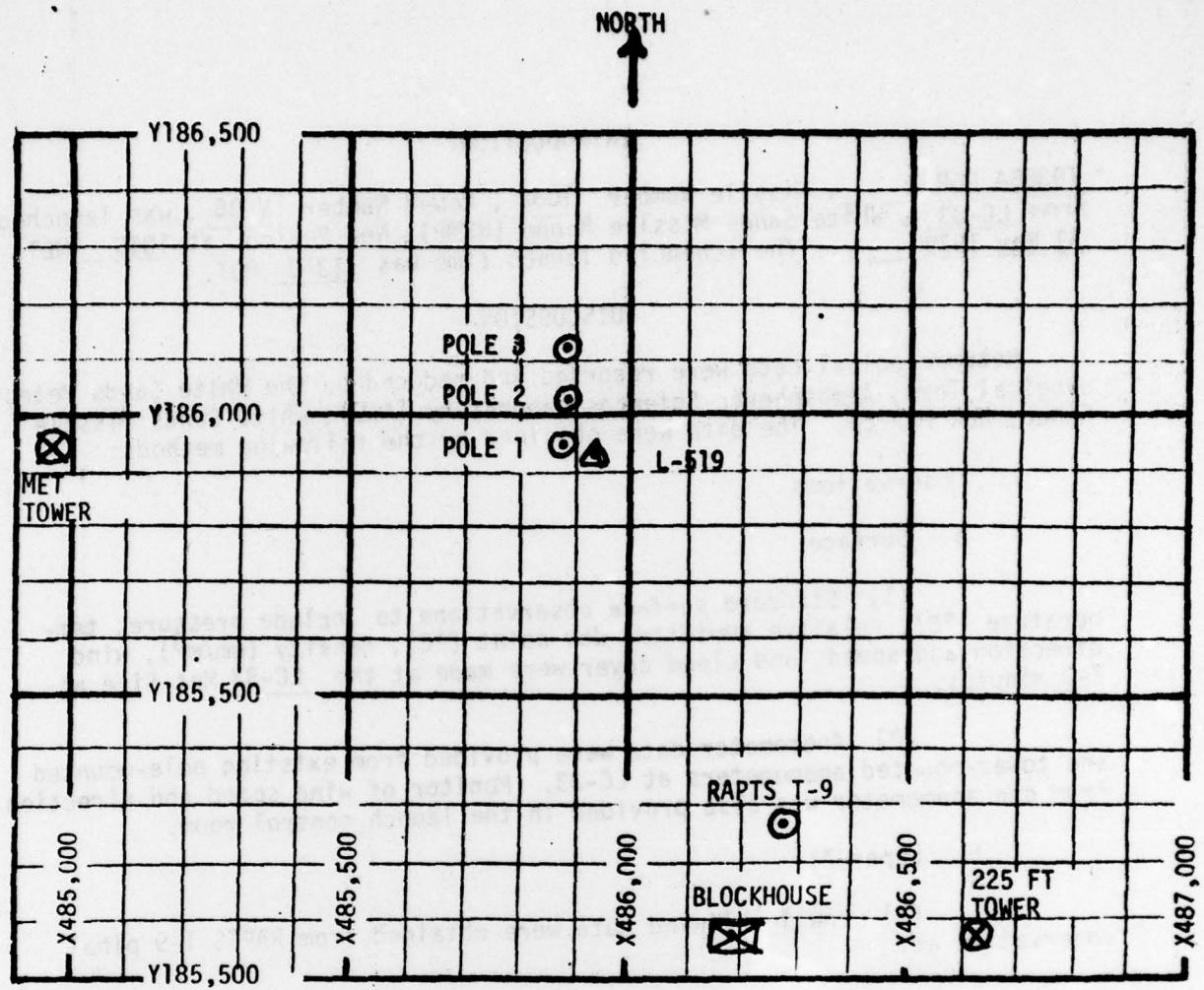
SITE AND ALTITUDE

LC-33 1020 meters (30-meter increments) 1310 MDT

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 62,500 feet in 500-feet increments.

SITE AND TIME

SMR 1125 MST



1. MET TOWER - 4 Bendix Model T-120 Anemometers at 12 ft, 62 ft, 102 ft and 202 ft with E/A recorders.
2. POLE ANEMOMETER - Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 - 38.7 ft
 - (b) Pole #2 - 53.0 ft
 - (c) Pole #3 - 83.6 ft
3. 225 FT WIND TOWER - 5 Bendix Model T-120 Anemometers at 35 ft, 88 ft, 128 ft, 168 ft and 200 ft with 5 X-Y visual indicators in Blockhouse.
4. RAPTS T-9 - Radar Automatic Pilot-Balloon Tracking System T-9 Radar

TABLE 1. SURFACE OBSERVATIONS TAKEN AT 1310 MDT,
31 MAY 1979 AT LC-33, 19305A GSRS,
MISSILE NO. 1033, ROUND NO. V-36

ELEVATION	3977.30	FT/MSL
PRESSURE	877.8	MBS
TEMPERATURE	32.2	°C
RELATIVE HUMIDITY	24	%
DEW POINT	9.0	°C
DENSITY	994	GM/M ³
WIND SPEED	05	MPH
WIND DIRECTION	075	DEGREES
CLOUD COVER	2	Cu
CLOUD COVER	1	TCu

TABLE 2. LC-33 FIXED POLE ANEMOMETER-MEASURED WINDS

POLE #1			POLE #2			POLE #3		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	102	10	-30	096	10	-30	108	M
-20	094	10	-20	101	10	-20	108	M
-10	093	09	-10	093	09	-10	105	13
0.0	084	07	0.0	092	10	0.0	105	10
+10	092	06	+10	073	08	+10	103	11

Type 19305A GSRS, Missile No. 1033, Round No. V-36 launched
from LC-33 on 31 May 1979 at 1310 MDT.

POLE #1 = X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL

POLE #2 = X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL

POLE #3 = X485,877.29 Y186,116.06 H4063.92 83.6 ft. AGL

NOTE: Wind directions are referenced to the firing azimuth _____
or true north true north .

TABLE 3. LC-33 METEOROLOGICAL TOWER ANEMOMETER-MEASURED WINDS (202 FT. TOWER)

LEVEL #1 12 ft.			LEVEL #2 62 ft.		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	157	08	-30	133	10
-20	157	09	-20	147	09
-10	157	11	-10	146	11
0.0	147	08	0.0	159	10
+10	168	08	+10	150	08
LEVEL #3 102 ft.			LEVEL #4 202 ft.		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	146	10	-30	135	06
-20	142	07	-20	102	06
-10	142	06	-10	117	05
0.0	168	07	0.0	135	06
+10	166	08	+10	146	06

WTSM Coordinates: X484,982.64 Y185,957.73 H3983.00 (base)

Type 19305A GSRS, Missile No. 1033, Round No. V-36 launched
from LC-33 on 31 May 1979 at 1310 MDT.

NOTE: Wind directions are referenced to the firing azimuth _____
or true north true north.

TABLE 4. PILOT-BALLOON-MEASURED WIND DATA (30-METER INCREMENTS)

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
SFC	075	5.0
30	123	3.0
60	171	0.5
90	112	3.5
120	052	6.0
150	066	8.0
180	080	9.5
210	074	8.5
240	068	7.5
270	075	9.0
300	081	10.0
330	084	10.5
360	086	11.0

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
390	077	10.0
420	068	9.0
450	072	6.5
480	076	4.0
510	100	3.5
540	123	3.0
570	104	3.5
600	085	4.0
630	127	4.5
660	168	4.5
690	163	4.5
720	158	4.5
750	147	4.0

Release Point Coordinates (WSTM): X486,037.24 Y486,037.24 H3977.30

Released from LC-33 on 31 May 1979 at 1310 MDT.

Type 19305A GSRS, Missile No. 1033, Round No. V-36 launched from LC-33 on 31 May 1979 at 1310 MDT.

NOTE: Wind directions are referenced to the firing azimuth or true north true north.

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
780	136	3.0
810	133	4.5
840	130	5.5
870	127	6.0
900	123	6.0
930	123	6.5
960	123	6.5
990	133	6.5
1020	142	6.5
1050		
1080		
1110		
1140		
1170		
1200		
1230		
1260		
1290		
1320		
1350		
1380		
1410		

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
1440		
1470		
1500		
1530		
1560		
1590		
1620		
1650		
1680		
1710		
1740		
1770		
1800		
1830		
1860		
1890		
1920		
1950		
1980		
2010		
2040		
2070		

STATION ALTITUDE 3997.30 FEET MSL
31 MAY 79 1125 HRS MST
ASCENSION NO. 101

SIGNIFICANT LEVEL DATA
151006011
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE DEGREES CENTIGRADE	AIR DENSITY CENTIGRADE	REL.HUM. PERCENT
876.9	3997.3	29.7	9.6	29.0
864.3	4418.0	25.6	5.6	28.0
850.0	4898.5	24.6	4.4	27.0
810.3	6266.0	20.6	11.6	54.0
777.6	7422.7	18.0	-2.6	24.0
706.0	10341.0	9.6	-3.5	39.6
590.3	14899.8	-2.9	-8.8	63.0
522.8	13016.2	-9.3	-31.1	15.0
500.0	19144.4	-11.6	-33.1	15.6
456.3	20764.4	-14.6	-31.7	22.0
409.8	24058.1	-22.4	-37.8	23.0
400.0	24542.1	-23.3	-39.9	20.0
374.6	26193.5	-26.8	-44.9	16.0
317.6	30037.9	-36.7	-49.4	25.0
303.0	31341.1	-40.7		
282.6	32655.6	-43.9		
250.0	35350.8	-49.1		
233.8	36791.2	-51.5		
200.0	40107.0	-54.7		
191.3	41043.5	-55.3		
187.3	41463.5	-54.6		
161.8	44566.6	-56.0		
150.0	45145.7	-58.4		
128.3	49371.9	-60.4		
104.6	53454.5	-68.2		
100.0	54384.7	-67.5		
91.8	56057.9	-66.9		
88.8	56753.9	-64.7		
76.3	59276.6	-66.9		
79.0	61516.9	-65.9		
65.2	62956.0	-61.5		

STATION ALTITUDE 3997.30 FEET MSL
31 MAY 79 1125 HRS MST
ASCENSION NO. 101

UPPER AIR DATA
1510060161
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

GEODETIC ALTITUDE KSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	AIR DEPOINT PERCENT	REL.HUM. PERCENT	DENSITY GM/CUBIC MILLITER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TTN)	INDEX OF REFRACTION
3997.3	876.9	29.7	9.8	29.0	1003.4	679.7	27.9	1.000274
4000.0	876.8	29.7	9.7	29.0	1003.4	679.7	27.9	1.000274
4500.0	861.8	25.4	5.5	27.8	1001.6	674.5	27.9	1.000262
5000.0	847.0	24.3	5.1	29.0	988.1	673.2	27.9	1.000258
5500.0	832.3	22.8	8.1	38.9	974.8	671.9	27.9	1.000264
6000.0	817.9	21.4	10.2	48.7	961.8	670.5	27.2	1.000269
6500.0	803.6	20.1	8.7	47.9	949.7	668.9	24.8	1.000261
7000.0	789.5	19.0	3.2	35.0	938.1	667.1	24.9	1.000243
7500.0	775.6	17.8	-2.3	24.4	926.5	665.3	105.6	1.000229
8000.0	761.8	16.4	-2.7	27.0	914.3	663.7	145.6	2.0
8500.0	748.1	15.0	-2.6	29.5	902.2	662.1	143.7	4.1
9000.0	734.7	13.6	-2.7	32.1	890.4	660.5	140.3	5.6
9200.0	721.6	12.2	-2.9	34.7	878.8	659.9	145.3	7.8
10000.0	706.7	10.8	-3.2	37.2	867.3	657.3	151.3	8.7
10500.0	695.8	9.4	-3.6	39.8	855.9	655.0	159.6	8.7
11000.0	682.9	8.0	-4.0	42.5	844.2	654.0	160.6	8.8
11500.0	670.3	6.6	-4.5	45.1	832.7	652.4	167.7	8.6
12000.0	657.8	5.2	-5.0	47.6	821.4	650.7	168.6	6.7
12500.0	645.6	3.8	-5.6	50.4	810.2	649.1	170.3	9.5
13000.0	633.6	2.4	-6.2	53.0	799.3	647.4	178.7	10.6
13500.0	621.9	1.0	-6.9	55.7	788.5	645.7	190.7	12.4
14000.0	610.3	-0.4	-7.6	58.3	777.9	644.1	200.8	15.1
14500.0	599.0	-1.5	-5.3	60.9	767.4	642.4	208.0	18.4
15000.0	587.8	-3.1	-9.5	61.3	755.9	640.6	212.6	21.4
15500.0	576.5	-4.1	-12.1	53.6	745.4	639.5	210.3	24.3
16000.0	565.4	-5.2	-15.0	46.0	734.1	638.1	219.5	26.4
16500.0	554.5	-6.2	-18.1	38.3	722.9	636.8	222.4	28.3
17000.0	543.8	-7.2	-21.6	30.6	711.9	635.5	224.5	28.9
17500.0	533.4	-8.2	-25.7	22.9	701.1	634.2	226.6	29.4
18000.0	523.1	-9.3	-30.9	15.2	690.4	633.0	230.6	30.4
18500.0	512.9	-10.4	-31.9	15.0	679.7	631.6	234.3	31.5
19000.0	502.9	-11.5	-32.9	15.9	669.3	630.3	230.5	31.8
19500.0	492.9	-12.5	-32.7	16.5	658.5	629.1	238.5	31.2
20000.0	482.1	-13.4	-32.2	18.7	647.8	628.0	239.9	26.5
20500.0	473.6	-14.3	-31.8	20.8	637.2	626.9	240.1	22.9
21000.0	464.2	-15.3	-32.1	22.1	626.9	625.7	236.9	21.3
21500.0	454.5	-16.5	-33.0	22.2	617.1	624.3	231.4	21.7
22000.0	445.7	-17.6	-33.9	22.4	607.4	622.8	225.1	23.8
22500.0	436.7	-18.8	-34.9	22.5	597.9	621.4	220.0	24.7
23000.0	427.4	-19.9	-35.8	22.7	583.5	620.0	210.5	25.5

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STATION ALTITUDE 5,997.30 FEET NSL
51 MAY 79 1125 HRS MST
ASCENSION NO. 161

UPPER AIR DATA
1510060161
S W R

GEODETIC COORDINATES
32°48'34" LAT DEG
106°42'30" LON DEG

STATIONAL ALTITUDE (FEET)	PRESSURE (IN. OF MILLIBARS)	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	SPEED OF SOUND CUBIC METER SECOND	WIND DATA DIRECTION, DEGREES (TIN)	SPEED KNOTS	INDEX OF REFRACTION
23500.0	619.2	-21.1	36.7	22.8	579.3	618.6	216.1
24000.0	416.8	-22.3	37.7	23.0	570.3	617.1	216.4
24500.0	402.4	-23.1	39.4	20.7	560.4	616.1	219.6
25000.0	394.1	-24.1	41.0	19.1	551.1	614.8	224.3
25500.0	385.9	-25.2	42.6	17.6	542.2	613.5	227.1
26000.0	377.9	-26.4	44.2	16.5	533.4	612.1	229.1
26500.0	370.0	-27.6	45.2	16.7	524.8	610.5	229.1
27000.0	362.1	-28.9	45.6	17.9	516.3	608.9	229.8
27500.0	354.4	-30.2	46.2	19.1	508.1	607.3	231.5
28000.0	346.9	-31.4	46.7	20.2	499.9	605.7	231.8
28500.0	339.5	-32.7	47.4	21.4	491.9	604.1	231.2
29000.0	332.3	-34.0	48.0	22.6	484.1	602.5	229.6
29500.0	325.2	-35.3	48.7	23.7	476.3	600.8	227.6
30000.0	318.3	-36.6	49.4	24.9	468.8	599.2	226.5
30500.0	311.4	-38.1	54.3	16.1**	461.5	597.3	225.8
31000.0	304.6	-39.7	62.6	6.5**	454.4	595.3	225.2
31500.0	297.9	-41.1			447.1	593.5	224.6
32000.0	291.3	-42.3			439.5	591.9	223.6
32500.0	284.8	-43.5			432.0	590.3	223.0
33000.0	278.4	-44.6			424.3	589.0	223.4
33500.0	272.1	-45.5			416.4	587.8	225.2
34000.0	265.9	-46.5			408.7	586.3	227.0
34500.0	259.9	-47.5			401.2	585.3	231.0
35000.0	254.0	-48.4			393.6	584.0	231.4
35500.0	248.3	-49.3			386.5	582.8	235.7
36000.0	242.6	-50.2			379.0	581.7	236.6
36500.0	237.0	-51.0			371.7	580.6	235.9
37000.0	231.5	-51.7			364.2	579.7	234.9
37500.0	226.1	-52.2			356.0	579.1	237.4
38000.0	220.9	-52.7			349.0	578.5	238.6
38500.0	215.7	-53.1			341.6	577.4	240.1
39000.0	210.7	-53.6			334.4	577.2	240.8
39500.0	205.8	-54.1			327.3	576.9	241.5
40000.0	201.0	-54.6			320.4	575.9	242.4
40500.0	196.3	-55.0			313.4	575.5	242.9
41000.0	191.7	-55.3			306.3	575.0	243.6
41500.0	187.2	-54.6			298.4	575.9	244.7
42000.0	182.8	-54.3			291.7	575.6	245.6
42500.0	178.2	-55.1			285.1	575.3	246.5
43000.0	174.3	-55.3			278.7	575.0	247.1

* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3997.36 FEET MSL
51 MAY 72 1125 HRS MST
ASCENSION NO. 161

UPPER AIR DATA
1510060101:
S M R

GEODETIC COORDINATES
32°48'34" LAT DEG
106.42307 LON DEG

GEOMETRIC ALTITUDE IN FEET	PRESSURE IN MILLIBARS	TEMPERATURE AIR DEWPPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY G./CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TM)	INDEX OF REFRACTION
43500.0	170.2	-55.5	272.5	574.7	247.9	30.8	1.000061
44000.0	166.2	-55.7	266.3	574.4	249.2	29.5	1.000059
44500.0	162.3	-56.0	260.4	574.1	250.7	28.1	1.000058
45000.0	158.5	-56.7	255.0	573.2	251.1	27.8	1.000057
45500.0	154.7	-57.4	249.8	572.2	251.3	27.8	1.000056
46000.0	151.1	-58.2	244.8	571.2	251.0	28.5	1.000055
46500.0	147.4	-58.6	239.4	570.5	250.1	30.5	1.000053
47000.0	143.9	-59.9	234.0	570.2	249.3	32.4	1.000052
47500.0	140.5	-59.2	228.8	569.8	248.1	33.8	1.000051
48000.0	137.1	-59.5	223.6	569.4	247.0	35.1	1.000050
48500.0	133.8	-59.9	218.6	569.0	246.7	35.7	1.000049
49000.0	130.6	-60.2	213.7	568.5	247.3	35.6	1.000048
49500.0	127.2	-60.6	209.0	567.9	247.8	35.4	1.000047
50000.0	124.4	-61.6	204.8	566.0	246.9	35.4	1.000046
50500.0	121.3	-62.6	200.7	565.4	250.0	35.3	1.000045
51000.0	118.4	-63.5	196.7	564.1	250.2	35.2	1.000044
51500.0	115.5	-64.5	192.7	562.6	249.0	34.9	1.000043
52000.0	112.6	-65.4	188.9	561.5	247.6	34.7	1.000042
52500.0	109.9	-66.4	185.1	560.2	247.1	33.9	1.000041
53000.0	107.2	-67.3	181.4	558.9	246.7	32.9	1.000040
53500.0	104.6	-68.2	177.7	557.3	246.0	31.9	1.000040
54000.0	102.0	-67.8	173.0	556.3	243.1	31.1	1.000039
54500.0	99.4	-67.5	168.4	556.7	240.0	30.4	1.000038
55000.0	96.8	-66.9	164.1	559.0	237.2	29.3	1.000037
55500.0	94.6	-67.1	159.9	559.2	234.4	27.5	1.000036
56000.0	92.2	-65.9	155.8	559.4	231.3	25.9	1.000035
56500.0	89.9	-65.5	161.3	561.9	231.0	24.6	1.000034
57000.0	87.7	-64.9	146.7	562.2	232.1	23.3	1.000033
57500.0	85.5	-65.4	143.4	561.6	232.9	22.3	1.000032
58000.0	83.4	-65.8	140.2	561.0	232.9	22.1	1.000031
58500.0	81.4	-66.2	137.0	560.4	232.9	21.9	1.000031
59000.0	79.4	-66.7	133.9	559.8	232.9	22.1	1.000030
59500.0	77.4	-66.8	130.7	559.0	232.9	22.7	1.000029
60000.0	75.5	-66.6	127.4	559.9	232.9	23.4	1.000028
60500.0	73.7	-66.4	140.2	560.2	124.1	22.1	1.000027
61000.0	71.8	-66.1	120.9	560.3	117.8	21.9	1.000026
61500.0	70.1	-65.9	114.1	562.0	114.1	20.0	1.000025
62000.0	68.4	-64.4	110.5	564.9	110.5	19.5	1.000025

STATION ALTITUDE 5997.30 FEET MSL
31 MAY 79 1125 HRS MST
ASCENSION NO. 101

MRN SIGNIFICANT LEVEL DATA
1510060161

GEOGRAPHIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	WIND DATA		DEW PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			
1912.	9999.**	9999.**	-9999.**	-9999.**	99	61.5
1869.	9999.**	9999.**	-9999.**	-9999.**	99	65.9
1801.	233.	12.	7.	9.	99	66.9
1724.	232.	12.	5.	10.	99	64.7
1704.	231.	13.	8.	10.	99	66.9
1653.	241.	16.	8.	14.	99	67.5

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3997.30 FEET MSL
 31 MAY 79 1125 HRS MST
 ASCENSION NO. 101

MANDATORY LEVELS
 1510060161
 S N R

GEODETIC COORDINATES
 32.48034 LAT DEG
 166.42307 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE DEGREES	REL.HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4825.	24.6	4.4	27.9	2.2
800.0	6624.	19.8	7.4	24.3	2.0
750.0	6432.	15.2	-2.6	144.5	3.8
700.0	10331.	9.8	-3.5	156.8	6.7
650.0	12331.	4.3	-5.4	169.9	9.2
600.0	14447.	-1.7	-8.3	207.5	18.1
550.0	16698.	-6.6	-19.5	223.3	28.6
500.0	19117.	-11.8	-33.1	237.1	31.8
450.0	21739.	-17.1	-33.5	228.0	22.7
400.0	24601.	-23.3	-39.9	220.8	27.1
350.0	27760.	-30.9	-46.5	232.1	27.1
300.0	31279.	-40.7		224.8	27.1
250.0	35274.	-49.1		235.4	37.5
200.0	40010.	-54.7		242.3	36.1
175.0	42810.	-55.2		247.0	31.7
150.0	46021.	-58.4		250.8	29.0
125.0	49763.	-61.4		246.6	35.4
100.0	54217.	-67.5		240.9	30.6
80.0	58653.	-66.5		232.9	21.8
70.0	61306.	-65.9			

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 5997.30 FEET MSL
31 MAY 79 1125 HRS NST
ASSEMBLY NO. 101

MRN MANDATORY LEVELS
151006016:
S M R

GEOGRAPHIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

GEOPOTENTIAL ALTITUDE WÉLÉMÉTIERS	DIRECTION DEG (T.)	WIND DATA		E-W HPS	DEW PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
		SPEED MPS	N-S MPS				
1869.	9999.**	9999.**	-9999.**	-9999.**	99	-65.9	7.000+1
1786.	233.	11.	7.	9.	99	-66.5	8.000+1
1653.	241.	16.	8.	14.	99	-67.5	1.000+2
1517.	249.	18.	7.	17.	99	-61.4	1.250+2
1403.	251.	15.	5.	14.	99	-52.4	1.500+2
1302.	247.	16.	6.	15.	99	-55.2	1.750+2
1220.	242.	19.	9.	16.	99	-54.7	2.000+2
1075.	235.	19.	11.	16.	99	-49.1	2.500+2
953.	225.	14.	10.	10.	99	-40.7	3.000+2
846.	232.	14.	9.	11.	16	-30.9	3.500+2
750.	221.	14.	11.	9.	17	-23.3	4.000+2
653.	223.	12.	3.	9.	16	-17.1	4.500+2
583.	237.	16.	9.	14.	21	-11.8	5.000+2
509.	223.	15.	11.	10.	13	-6.6	5.500+2
440.	207.	9.	8.	4.	07	-1.7	6.000+2
370.	170.	5.	5.	-1.	10	4.3	6.500+2
315.	157.	4.	4.	-2.	13	9.8	7.000+2
257.	144.	2.	2.	-1.	18	15.2	7.500+2
202.	24.	1.	1.	-0.	12	19.8	8.000+2
149.	28.	1.	1.	-1.	20	24.6	8.500+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.